

H1
cont

(a) inhibiting the endogenous trehalase activity in the plants or parts thereof and cultivating the plants to allow an accumulation of trehalose in the plants or parts thereof; and

(b) screening for a plant or a plant part having a level of trehalose that is increased as a result of said inhibiting.

H2

Claim 61 (amended) A process according to claim 43 wherein the plant or the part thereof is from a *Solanaceae* species.

[Please add the following new claims:]

H3

Claim 66. A process according to claim 35, wherein the plants have been genetically altered to synthesize said trehalose by transformation with the gene coding for trehalose synthesizing enzyme, and wherein the inhibiting in step (a) comprises cultivating the plants in the presence of a chemical trehalase inhibitor.

Claim 67. A process according to claim 66, wherein the gene coding for trehalose synthesizing enzyme is a plant gene, a bacterial gene or a fungal gene.

Claim 68. A process according to claim 67, wherein the gene coding for trehalose synthesizing enzyme is a bacterial or fungal gene coding for trehalose phosphate synthase.

Claim 69. A process according to claim 67, wherein the gene coding for trehalose